AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions.

1. (currently amended) A retractable ramp system comprising:

a frame;

a ramp platform;

a ramp carriage assembly for moving said ramp platform; platform, the ramp carriage assembly movable with respect to the frame:

- a motor; motor coupled to the frame;
- a motor drive shaft;
- a drive pulley connected with said motor drive shaft;
- a belt in communication with said drive pulley and said ramp carriage assembly; and
- a motor release assembly configured to disconnect and connect said drive pulley from said motor.
- $\label{eq:continuous} 2. \ (previously presented) \qquad The retractable ramp system of claim 1 \ wherein said mechanical motor release assembly comprises:$
 - a release cable; and
- a release actuator in communication with an end of said release cable and configured to disconnect and connect said drive pulley from said motor.
- 3. (previously presented) The retractable ramp system of claim 2 further comprising a sliding collar mounted upon said motor drive shaft, said sliding collar connected with said release actuator, said sliding collar comprising at least one pin extending from said collar for connecting said drive pulley.
- 4. (previously presented) The retractable ramp system of claim 3 wherein said release actuator comprises a first end and an opposite end, said first end pivotable about a point and said opposite end connected with said sliding collar.
- (previously presented) The retractable ramp system of claim 3 further comprising a keyed collar connected with said motor drive shaft between said sliding collar and said drive pulley.

- (original) The retractable ramp system of claim 5 wherein said keyed collar defines at least one opening for the passage of said pin of said sliding collar.
- 7. (original) The retractable ramp system of claim 3 wherein said drive pulley defines at least one opening for the insertion of said pin of said sliding collar.
 - 8. (previously presented) The retractable ramp system of claim 3 further comprising: a stop collar connected with said motor drive shaft; and
- a spring connected with said motor drive shaft between said stop collar and said sliding collar.
- (original) The retractable ramp system of claim 1 further comprising a manual control assembly comprising:
 - a manual control bearing block in communication with said ramp carriage assembly; a manual control cable in communication with said manual control bearing block; and a crank in communication with said manual control cable.
 - 10. (original) The retractable ramp system of claim 9 wherein said crank comprises: a crank handle; and
- a manual control pulley in communication with said crank handle and said manual control cable.
 - 11. (original) The retractable ramp system of claim 10 further comprising:
- a shaft comprising a first end and a second end, said first end of said shaft inserted into said crank handle; and
- a one-way bearing inserted into said second end of said shaft, said second end of said shaft in communication with said manual control pulley.

12. (previously presented) The retractable ramp system of claim 1 wherein said ramp carriage assembly comprises:

guide shafts;

linear bearings translational along said guide shafts; and

pivot arms connected with said linear bearings, said pivot arms pivotably connected with said ramp platform.

- 13. (original) The retractable ramp system of claim 12 further comprising: a member extending orthogonally between said pivot arms; and a torsion bar extending orthogonally between said pivot arms.
- 14. (original) The retractable ramp system of claim 13 further comprising a torsion spring for preloading said torsion bar.
- 15. (original) The retractable ramp system of claim 14 further comprising a bar extending between said torsion bar and an end of said ramp platform for providing a downward force against an end of said ramp platform.
 - 16. (previously presented) The retractable ramp system of claim 1 further comprising: a ramp flap;
 - a ramp flap hinge in communication with said ramp flap; and
- at least one ramp flap wheel connected with an underside of said ramp flap, said wheel translational upon said ramp platform.
- 17. (previously presented) The retractable ramp system of claim 16 further comprising a ramp flap actuator bracket connected with one of said at least one ramp flap wheel, said bracket providing a force against said ramp flap upon a movement of said ramp platform.
- 18. (previously presented) The retractable ramp system of claim 17 wherein said ramp platform defines a cutout through which said at least one ramp flap wheel drops when said ramp platform deploys.

- 19. (original) The retractable ramp system of claim 17 wherein said ramp platform defines a cutout through which said at least one ramp flap wheel drops upon deployment of said ramp platform.
- 20. (original) The retractable ramp system of claim 1 wherein said carriage assembly comprises a profile approximately equal to the profile of said ramp platform.
- 21. (currently amended) A method of operating a retractable ramp system, the method comprising:

providing a ramp platform;

moving the ramp platform with a ramp carriage assembly;

powering the ramp platform with a motor having a motor drive shaft;

providing a drive pulley upon the motor drive shaft;

moving the ramp carriage assembly <u>relative to the motor</u> with a belt in communication with the drive pulley and ramp carriage assembly; and

disconnecting and connecting the drive pulley from the motor using a motor release assembly.

- 22. (previously presented) The method of claim 21 wherein the step of disconnecting and connecting the drive pulley from the motor with a motor release assembly comprises disconnecting the motor from the drive pulley with a release actuator.
- 23. (previously presented) The method of claim 22 wherein the step of disconnecting the motor from the drive pulley with a release actuator comprises pulling on the release actuator with a release cable.
- 24. (original) The method of claim 23 wherein the step of pulling on the release actuator with a release cable comprises pivoting an end of the release actuator about a pivot point.
- 25. (original) The method of claim 23 wherein the step of pulling on the release actuator with a release cable comprises translating a sliding collar along the motor drive shaft with the release actuator.

- 26. (previously presented) The method of claim 25 further comprising providing at least one pin extending from the sliding collar, said pin for connecting with and disconnecting from the drive pulley.
- (original) The method of claim 26 further comprising providing a keyed collar mounted upon the motor drive shaft between the sliding collar and drive pulley.
- 28. (original) The method of claim 27 further comprising passing a pin of the sliding collar through an opening defined in the keyed collar.
- 29. (previously presented) The method of claim 28 further comprising removing a pin of the sliding collar from an opening defined in the drive pulley to disconnect the drive pulley from the motor.
- 30. (original) The method of claim 29 further comprising spring-loading the sliding collar with a spring force opposing the pulling force applied to the release actuator.
- 31. (previously presented) The method of claim 30 further comprising connecting the drive pulley with the motor by inserting a pin of the sliding collar through an opening defined in the drive pulley with the spring force exerted on the sliding collar.
- 32. (previously presented) The method of claim 21 further comprising manually controlling the ramp system when the drive pulley is disconnected from the motor.
- 33. (previously presented) The method of claim 32 wherein the step of manually controlling the ramp system when the drive pulley is disconnected from the motor comprises:

providing a manual control bearing block in communication with the ramp carriage assembly; and

translating the ramp carriage assembly with the manual control bearing block by moving the manual control bearing block with a manual control cable in communication with the manual control bearing block.

34. (original) The method of claim 33 wherein the step of moving the manual control bearing block with a manual control cable comprises:

turning a crank handle; and

taking up the manual control cable onto a manual control pulley controlled by the crank handle.

- 35. (original) The method of claim 34 further comprising allowing the manual control pulley to rotate only in a single direction.
- 36. (previously presented) The method of claim 21 wherein the step of moving the ramp platform with a ramp carriage assembly comprises:

providing pivot arms pivotably connected with the ramp platform; providing linear bearings connected with the pivot arms; and translating the linear bearings along guide shafts.

- 37. (original) The method of claim 36 further comprising: providing a member extending orthogonally between the pivot arms; and providing a torsion bar extending orthogonally between the pivot arms.
- 38. (original) The method of claim 37 further comprising preloading the torsion bar with a torsion spring.
- 39. (original) The method of claim 3 8 further comprising providing a downward force against an end of the ramp platform with a bar extending between the torsion bar and an end of the ramp platform.
 - 40. (previously presented) The method of claim 21 further comprising: providing a ramp flap;

rotating the ramp flap with a ramp flap hinge;

providing at least one ramp flap wheel connected with an underside of the ramp flap; and translating a ramp flap wheel connected with the ramp platform.

- 41. (previously presented) The method of claim 40 further comprising providing a force against the ramp flap upon a movement of the ramp platform with a ramp flap actuator bracket connected with one of the ramp flap wheels.
- 42. (previously presented) The method of claim 40 further comprising dropping a ramp flap wheel into a cutout defined in the ramp platform when the ramp platform moves.
- 43. (previously presented) A method of deploying a retractable ramp system, the method comprising:

rotating a motor shaft;

rotating a drive pulley with the motor shaft;

moving a drive belt with the drive pulley;

deploying a ramp carriage assembly for a ramp platform with the drive belt;

pivoting the ramp platformaround support bearings of the ramp carriage assembly when the ramp platform deploys beyond a predetermined point; and

dropping wheels of a ramp flap into a cutout defined in the ramp platform when the ramp platform deploys.

44. (previously presented) A method of stowing a retractable ramp system, the method comprising:

rotating a motor shaft;

rotating a drive pulley with the motor shaft;

moving a drive belt with the drive pulley;

stowing a ramp carriage assembly for a ramp platform with the drive belt;

pivoting the ramp platform around support bearings of the ramp carriage assembly;

rotating a ramp flap into a horizontal position with a force provided by brackets

connected with wheels connected with an underside of the ramp flap; and

translating the ramp flap wheels along the ramp platform.

45. (previously presented) The retractable ramp system of claim 1, wherein said belt is in connected with said drive pulley when the motor is disconnected from said drive pulley.

46. (previously presented) The method of claim 21, wherein the belt is in connected with the drive pulley when the drive pulley is disconnected from the motor.